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	Application No.	Applicant(s)	<u>/</u>
Notice of Allowability	10/772,019	CARPENTER, KEVIN	
	Examiner	Art Unit	
	Jeff Natalini	2858	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in thi ) or other appropriate communic IGHTS. This application is subj	s application. If not included ation will be mailed in due course	
1. 🔀 This communication is responsive to telephone interview of	<u>on 12/15/05</u> .		
2.  The allowed claim(s) is/are <u>1-10,32,33 and 35-39</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority up a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have		<b>;</b> ).	
Certified copies of the priority documents have  Certified copies of the priority documents have		lo.	
Copies of the certified copies of the priority do	• •		om tha
•	cuments have been received in	this national stage application inc	on the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		eply complying with the requirem	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	l.84(c)) should be written on the d the header according to 37 CFR 1	rawings in the front (not the back) .121(d).	of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ne
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inforn	nal Patent Application (PTO-152)	)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Sumr		
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Ma	il Date <u>20051215</u> .	
Paper No./Mail Date	0	Assessed of Donosee for Allewanes	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		tement of Reasons for Allowance	•
	9. 🗌 Other		
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## **DETAILED ACTION**

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## Allowable Subject Matter

1. Claims 1-10, 32, 33, and 35-39 are allowed.

## **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 1:

On line 13 of the claim (the 5<sup>th</sup> paragraph) after "a former voltage level" the "," has been changed to a ";"

The 7<sup>th</sup> paragraph, starting with "means for audibly indicating a ..." has been moved to follow the 5<sup>th</sup> paragraph, and thus now come before paragraph 6. At the end of this paragraph after "fixed value of conductance" the "." has been changed to ";"

The 6<sup>th</sup> paragraph ("wherein said sudden changes in voltage") now the last paragraph in the claim, therefore at the end of the paragraph after "audibly indicating a sudden change" the ": and" has been replaced with a "."

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The following is a marked up version of claim 1:

1. (currently amended): An apparatus for tracing electrical shorts in a wiring circuit under test, comprising:

means for producing a continuous source of substantially fixed current flow into a wiring circuit under test, said means for producing current configured for establishing an electrical connection to the wiring circuit anywhere along the length of the wiring circuit;

means for continuously monitoring voltage across said circuit under test, said means comprising,

a comparator circuit adapted to detect a plurality of sudden changes in applied voltage in response to said substantially fixed current flow,

a charge storage capacitor coupled to a first input of said comparator circuit configuring said comparator circuit to detect a first direction of voltage change in the wiring circuit in relation to a former voltage level, and

wherein said sudden changes in voltage are detected in response to voltage changes in the wiring circuit which exceed a predetermined voltage change within a given length of time and are communicated to said means for audibly indicating a sudden change; and

means for audibly indicating a sudden change in circuit conductance, in relation to a preceding value of conductance and not a fixed value of conductance.

wherein said sudden changes in voltage are detected in response to voltage changes in the wiring circuit which exceed a predetermined voltage change within a

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given length of time and are communicated to said means for audibly indicating a

sudden change.

Authorization for this examiner's amendment was given in a telephone interview

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with John O'Banion on December 15, 2005 (see attached PTOL-413).

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jeff Natalini whose telephone number is 571-272-2266.

The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Jeff Natalini

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